

**Notice of Allowability**

Application No.

10/731,180

Examiner

James S. Hogan

Applicant(s)

SU LIM, HOWARD TAK

Art Unit

3752

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--**

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to application filed.
2. ☒ The allowed claim(s) is/are 1-14.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) ☐ All    b) ☐ Some\*    c) ☐ None    of the:
  1. ☐ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

\* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

**THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.**

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
5. ☐ CORRECTED DRAWINGS ( as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date \_\_\_\_\_.
  - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

**Attachment(s)**

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☒ Information Disclosure Statements (PTO-1449 or PTO/SB/08),  
Paper No./Mail Date 12/9/2003
4. ☐ Examiner's Comment Regarding Requirement for Deposit  
of Biological Material
5. ☐ Notice of Informal Patent Application (PTO-152)
6. ☐ Interview Summary (PTO-413),  
Paper No./Mail Date \_\_\_\_\_.
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other \_\_\_\_\_.

**DETAILED ACTION**

**EXAMINER'S AMENDMENT**

In the claims, line 2 of claim 8 is to read:

claim 6 and or claim 7 wherein said means include various shapes including a

***Allowable Subject Matter***

Claims 1-14 are allowed.

The following is a statement of reasons for the indication of allowable subject matter: the prior art fails to disclose or render obvious a multi-purpose hand held sprayer assembly having a vertical shut-off valve which, the sprayer comprises three distinctive segments. First, a controller for regulating flow of the fluid and having an elongate body incorporating the vertical shut-off valve. Also included within the controller is an inlet including a coupler for communication with a pressurized fluid source, and an outlet including an opening having an adapter arranged with multiple sizes of diameters for a quick connection. A channel internally links for flow of the fluid from the inlet to the outlet through the vertical shut-off valve, and an exterior having a slim body for a handgrip and a contour on said body for being placed in a holder. The second segment of the assembly is an extension bar carrying the fluid to a distant area and having a body being formed with a tubular shape, an inlet including an adapter arranged with multiple sizes of diameters for a quick connection to the outlet of the controller, and an outlet including an adapter arranged with multiple sizes of diameters for a quick connection to the third segment. Also included, O-rings on the inlet and the

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outlet provide a quick connection to afford sealing and friction, and a channel that internally links for flow of the fluid from the inlet to the outlet for spouting the fluid in a single stream, and an exterior contour on the body for being placed in a holder. The third segment is a spray tip performing distribution of the fluid in the air and having a body curved at various angles, an inlet including an adapter arranged with multiple sizes of diameters for a quick connection to the outlet of the extension bar, an outlet opening for releasing fluid having an internal base for placing an O-ring, a cover plate for the outlet opening contained various sizes and patterns of small holes for fine multiple streams of fluid, an O-ring placed in the outlet opening for the cover plate to seal, a chamber at the inlet offering a buffer for an occurrence that the inlet is not aligned with the outlet of the extension bar, and a channel that internally links from the inlet through said chamber to said outlet. The connection of all three segments makes the sprayer assembly.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure is as follows:

U.S. Patent No. 3,866,839 to Manger, disclosing a torch head

U.S. Patent No. 5,050,802 to Gill et al., disclosing a vertical valve

U.S. Patent No. 5,735,467 to Lee, disclosing a shower device

U.S. Patent No. 6,269,821 to Berke et al, disclosing an aerosol applicator

U.S. Patent No. 6,422,485 to Hsu, disclosing a pistol nozzle

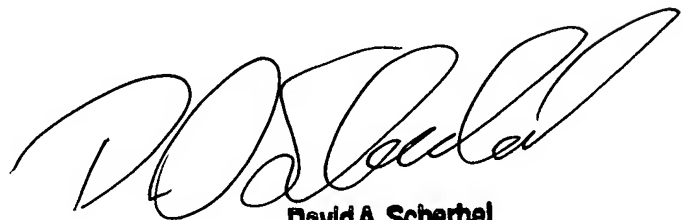
U.S. Patent Application No. 2004/0188551 A1 to Evans, disclosing an atomizer

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James S. Hogan whose telephone number is (571) 272-4902. The examiner can normally be reached on Mon-Fri, 7:00a-4:00p EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Scherbel can be reached on (571) 272-4919. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JSH  
12/20/2005



**David A. Scherbel**  
**Supervisory Patent Examiner**  
**Group 3700**